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PHOTOGRAPHIC INTERPRETATION REPORT



APRIL SUMMARY REPORT

SELECTED TARGETS
NORTH VIETNAM AND LAOS

NPIC/R-161/66

MAY 1966

ARCHIVAL RECORD
RETURN TO AGENCY ARCHIVES

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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PREFACE

This report provides a summary of photographic interpretation of selected COMOR targets and other targets in North Vietnam and Laos considered significant by the National Photographic Interpretation Center (NPIC).

Each installation report includes target name, geographic coordinates, WAC number, BE number (as appropriate), and NPIC number followed by the locator line, COMOR target number (as appropriate), and summary description suitable for the most recent mission included.

The date, mission number, photo reference data, and limiting conditions are given for each mission with OB information (as appropriate) listed directly above.

Only AAA defenses considered to be integral components of an installation are reported. They are divided

into three basic categories: light (ZPU-1, ZPU-2, ZPU-4, 37mm), medium (57mm, 85mm), and heavy (100mm and larger). The term HMGAA (heavy machine gun anti-aircraft) indicates a weapon smaller than a ZPU-1. When a category cannot be determined, the site is listed as an AAA site and the number of guns indicated (Ex.: 6-gun AAA site, occupied/unoccupied).

Targets are arranged 1) by country, 2) within the country by subject, 3) within the subject by WAC number, and 4) within the WAC number by geographic coordinates in ascending order.

An appendix explaining column headings, photo reference data, COMOR target numbers, and abbreviations for limiting conditions concludes the report.

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Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
<p>-NORTH VIETNAM-</p> <p>MISSILES</p> <p>THANH HOA SAM SITE B01-2 25X1D</p> <p>19.5 NM NNE OF THANH HOA AT [REDACTED]</p> <p>[REDACTED]</p> <p>SITE (NO 26) CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 2 REVETTED MISSILE-HOLD POSITIONS.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p> <p>THANH HOA SAM SITE B02-2</p> <p>19.5 NM NNE OF THANH HOA AT [REDACTED]</p> <p>[REDACTED]</p> <p>SITE (NO 27) CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 1 PROBABLE MISSILE-HOLD POSITION.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p> <p>THANH HOA SAM SITE C02-2 25X1D</p> <p>21.8 NM NNE OF THANH HOA AT UTM [REDACTED]</p> <p>[REDACTED]</p> <p>SITE (NO 23) CONTAINS 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA.</p> <p>OB -- NONE OBSERVED.</p> <p>[REDACTED]</p> <p>THANH HOA SAM SITE C02A-2</p> <p>22.2 NNE OF THANH HOA AT [REDACTED]</p> <p>[REDACTED]</p> <p>25X1D</p>	<p>2006N 10550E</p> <p>2006N 10550E</p> <p>2009N 10554E</p> <p>2010N 10553E</p>	<p>0616</p> <p>0616</p> <p>0616</p> <p>0616</p>	<p>25X1A</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	<p>518</p> <p>518-A</p> <p>231-D</p> <p>231-G</p>

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1A	[REDACTED] SITE (NO 65) CONTAINS 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 PROBABLE MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.				
25X1D	[REDACTED]			25X1A	
25X1A	THANH HOA SAM SITE C03-2 27.6 NM NE OF THANH HOA AT [REDACTED] 25X1D	2013N 10559E	0616	[REDACTED]	231-F
25X1A	[REDACTED] SITE (NO 46) CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA, AND 3 REVETTED MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.				
25X1D	[REDACTED]				
25X1A	HANOI SAM SITE B25-2 14.5 NM SW OF HANOI AT [REDACTED] 25X1D	2054N 10536E	0616	[REDACTED]	266-E
25X1D	[REDACTED] SITE (NO 11) CONSISTS OF 6 PARTIALLY REVETTED LAUNCH POSITIONS, A PARTIALLY REVETTED CENTRAL GUIDANCE AREA, 1 MISSILE-HOLD POSITION, AND 2 PROBABLE MISSILE-HOLD POSITIONS. OB -- NONE OBSERVED.				
25X1A	[REDACTED] HANOI SAM SITE A19-2 6.6 NM SOUTH OF HANOI AT [REDACTED] 25X1D	2055N 10550E	0616	[REDACTED]	266-F
25X1A	[REDACTED] SITE (NO 15) CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED.				

Target	Coordinates	WAC	Target Numbers	
			BE	NPIC
25X1D [REDACTED]			25X1A	
HAIPHONG SAM SITE B28-2 19.3 NM WEST OF HAIPHONG AT [REDACTED] [REDACTED] 25X1D SITE (NO 60) CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED. [REDACTED]	2052N 10620E	0616	[REDACTED]	310-E
25X1A				
25X1D				
HAIPHONG SAM SITE C28-2 22.5 NM WNW OF HAIPHONG [REDACTED] 25X1D [REDACTED] 25X1D SITE (NO 73) CONTAINS 4 LAUNCH POSITIONS. OB -- NONE OBSERVED. [REDACTED]	2053N 10617E	0616	[REDACTED]	310-G
25X1A				
25X1D				
HAIPHONG SAM SITE A33A-2 7 NM NW OF HAIPHONG AT [REDACTED] 25X1D [REDACTED] 25X1D SITE (NO 93) CONSISTS OF 6 UNOCCUPIED REVETTED LAUNCH POSITIONS IN AN HOURGLASS CONFIGURATION AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED. [REDACTED]	2054N 10638E	0616	[REDACTED]	109-Z3
25X1A				
25X1D				
HAIPHONG SAM SITE B29-2 17.8 NM WNW OF HAIPHONG AT [REDACTED] 25X1D [REDACTED] 25X1D [REDACTED]	2055N 10622E	0616	[REDACTED]	310-D
25X1A				

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	SITE (NO 49) CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED. [REDACTED]				
25X1A	HANOI SAM SITE C29-2 28 NM WNW OF HANOI AND 0.8 NM NW OF CAM DAI ARMY BARRACKS AT [REDACTED] 25X1D [REDACTED]	2110N 10522E	0616	25X1A	200-B
25X1D	SITE (NO 6) CONSISTS OF 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED. [REDACTED]				
25X1A	HANOI SAM SITE B33-2 11 NM NW OF HANOI AT [REDACTED] 25X1D [REDACTED]	2110N 10544E	0616		411-A
25X1D	SITE (NO 64) CONSISTS OF 3 REVETTED LAUNCH POSITIONS IN LATE STAGE OF CONSTRUCTION, 1 REVETTED LAUNCH POSITION IN EARLY STAGE OF CONSTRUCTION, GROUND SCARRING INDICATING A POSSIBLE 5TH LAUNCH POSITION, A REVETTED CENTRAL GUIDANCE AREA, AND 2 REVETTED MISSILE-HOLD POSITIONS IN LATE STAGE OF CONSTRUCTION. OB -- NONE OBSERVED. [REDACTED]				
25X1A	HANOI SAM SITE B04-2 13 NM NNE OF HANOI AT [REDACTED] 25X1D [REDACTED]	2111N 10559E	0616		206-E
	SITE (NO 5) CONSISTS OF 6 REVETTED LAUNCH POSITIONS, A REVETTED CENTRAL GUIDANCE AREA,				

	Target	Coordinates	WAC	Target Numbers	
				BE	NPIC
25X1D	AND 3 REVETTED MISSILE-HOLD POSITIONS. A NEW ROAD HAS BEEN CONSTRUCTED LEADING FROM SITE TO AN EMPTY REVETMENT 0.1 NM NE. OB -- NONE OBSERVED. [REDACTED]			25X1A	
25X1A	HANOI SAM SITE C30D-2 22.4 NM NW OF HANOI AT [REDACTED] [REDACTED] 25X1D SITE (NO 92) CONTAINS 6 REVETTED LAUNCH POSITIONS AND A REVETTED CENTRAL GUIDANCE AREA. OB -- NONE OBSERVED. [REDACTED]	2112N 10530E	0616	[REDACTED]	262-B
25X1D	VINH SAM SITE C19-2 14.5 NM WSW OF HA TINH AND 21.3 NM SOUTH OF VINH AT [REDACTED] [REDACTED]	1818N 10539E	0617	[REDACTED]	346-C
25X1D	SITE (NO 101) CONSISTS OF 3 LAUNCH POSITIONS AND A CENTRAL GUIDANCE AREA. OB -- 3 CAMOUFLAGED MISSILES ON LAUNCHERS, A FAN SONG RADAR AND 5 CAMOUFLAGED SUPPORT VANS. [REDACTED]				
25X1A	VINH SAM SITE B16-2 19.5 NM SSE OF VINH AND 5.5 NM WNW OF HA TINH AT [REDACTED] 25X1D [REDACTED]	1822N 10548E	0617	[REDACTED]	109-J
25X1A	SITE (NO 103) CONSISTS OF 3 UNRETTED LAUNCH POSITIONS AND A CENTRAL GUIDANCE AREA. OB -- 2 MISSILES ON LAUNCHER, 1 PROBABLE LAUNCHER, A FAN SONG RADAR AND 3 ASSOCIATED				

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<p>VANS, AND 3 PIECES UNIDENTIFIED EQUIPMENT. ALL MISSILES AND EQUIPMENT ARE HEAVILY CAMOUFLAGED.</p> <p>25X1D [REDACTED]</p> <p>VINH SAM SITE C32-2 29.2 NM NW OF VINH AT [REDACTED]</p> <p>25X1D [REDACTED]</p> <p>25X1A [REDACTED]</p> <p>SITE (NO 102) CONSISTS OF 3 UNREVIEWED LAUNCH POSITIONS AND AN UNREVIEWED CENTRAL GUIDANCE AREA. 08 -- 3 CAMOUFLAGED MISSILES ON LAUNCHERS, A CAMOUFLAGED PROBABLE FAN SONG RADAR, 4 CAMOUFLAGED VANS, AND 1 MISSILE TRANSPORTER NE OF SITE.</p> <p>25X1D [REDACTED]</p> <p>AIR INSTALLATIONS</p> <p>HAIPHONG/CAT BI AIRFIELD 3.5 NM SE OF HAIPHONG. 7,510 X 160 FT ENE/WSW CONCRETE RUNWAY, SERVICEABLE. FORMER NNW/SSE CONCRETE RUNWAY IS NOW USED AS A PARKING APRON. FACILITIES INCLUDE A PARALLEL TAXIWAY WITH 2 END-CONNECTING AND 3 CROSSOVER LINKS, A PARKING APRON TO THE NORTH, 2 LARGE AND 1 SMALL HANGAR, A CONTROL TOWER/OPERATIONS BUILDING, APPROXIMATELY 40 ASSOCIATED BUILDINGS, AT LEAST 24 OLD AIRCRAFT REVETMENTS AND 8 NEW AIRCRAFT REVETMENTS (WITH EXHAUST VENTS/PERSONNEL EXIT SLITS), AND A POL STORAGE AREA 0.4 NM NORTH</p>	<p>1900N 10518E</p> <p>2049N 10643E</p>	<p>0617</p> <p>0616</p>	<p>25X1A [REDACTED]</p> <p>25X1A [REDACTED]</p>	<p>169-A</p> <p>109-A</p>

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			BE	NPIC
<p>CONTAINING 3 LARGE BURIED TANKS. OB -- NONE OBSERVED.</p> <p>YEN BAI SUSPECT AIRFIELD U/C 2.3 NM NW OF YEN BAI AT</p> <p>SUSPECT AIRFIELD IN EARLY STAGE OF CONSTRUCTION CONSISTS OF A 6,600 X 600 FT NW/SE AREA OF CONSTRUCTION. THE KARST HILLS IN THIS AREA ARE BEING LEVELED. THE MATERIAL OBTAINED IS BEING USED TO FILL IN VALLEYS BETWEEN THE HILLS AND TO BUILD NEW ROADS. EXCESS MATERIAL IS BEING DUMPED ON A SAND BAR IN THE RED RIVER. ONE 6,000-FT DRAINAGE CANAL IS PARALLEL TO SUSPECT AIRFIELD AND SEVERAL MINOR DRAINAGE CANALS ARE ADJACENT TO THE AREA. AN EXTENSIVE ROAD NETWORK, WITH CONNECTING LINKS TO NUMEROUS NEW STORAGE AREAS, IS UNDER CONSTRUCTION. THE COMPLETED PORTIONS ARE BEING CAMOUFLAGED WITH VEGETATION. AT LEAST 285 NEW STORAGE/SUPPORT BUILDINGS ARE DISPERSED IN TREES AT THE BASE OF THE KARST HILLS. OB -- NONE OBSERVED. ACTIVITY -- AT LEAST 32 PIECES OF CONSTRUCTION EQUIPMENT.</p> <p>PORTS AND HARBORS HAIPHONG PORT FACILITIES ON SOUTH BANK OF THE CUA CAM (ESTUARY).</p>	<p>2144N 10452E</p> <p>2052N 10642E</p>	<p>0616</p> <p>0616</p>	<p>147-D</p> <p>25X1A</p>	<p>109-D</p>

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Target	Coordinates	WAC	Target Numbers	
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<p>25X1A</p> <p>[REDACTED]</p> <p>FACILITIES INCLUDE AN APPROXIMATELY 4,000 FT LONG WHARF (SERVED BY 17 RAMPS), NUMEROUS SMALL DOCKS AND PIERS, A SHIP REPAIR YARD WITH 4 MARINE RAILWAYS, 12 LARGE WAREHOUSES, NUMEROUS STORAGE AND SUPPORT BUILDINGS, A LARGE POL STORAGE AREA, A THERMAL POWERPLANT, AND AN ACTIVE CEMENT PLANT. OB -- 2 P-4 CLASS PT IN DRYDOCK. VESSELS -- 5 LARGE, 2 MEDIUM, AND 11 SMALL FREIGHTERS, 70 BARGES, NUMEROUS SMALL RIVER CRAFT, AND 1 PILE DRIVER (NEAR THE CONSTRUCTION OF A NEW PIER AT [REDACTED])</p> <p>25X1D</p> <p>25X1D</p> <p>URBAN COMPLEXES</p> <p>LAO CAI COMPLEX</p> <p>COMPLEX CONTAINS LIGHT INDUSTRY, A MILITARY BARRACKS AND STORAGE AREA, AND A CLASSIFICATION YARD (1,800 FT LONG AND 8 TRACKS WIDE). ACTIVITY -- APPROXIMATELY 18 PIECES OF ROLLING STOCK.</p> <p>25X1D</p> <p>[REDACTED]</p>	<p>2231N 10359E</p>	<p>0616</p>	<p>25X1A</p> <p>[REDACTED]</p>	<p>5</p>

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APPENDIX

COLUMN HEADINGS

City, Installation--This column contains the name of the city or town nearest the installation, followed by the name of the installation. If the name of the installation is not known, it is titled according to its function. Where appropriate, the city and installation names are followed by a capsule description.

Coordinates--Coordinates are referenced to the SW corner of the minute square. When the subject installation covers a wide area, coordinates are given for the approximate center of the installation.

WAC--This column provides the World Aeronautical Chart number for that area in which the subject installation is situated.

Installation Numbers--This column is divided into two subcolumns. The first subcolumn lists, when known, the BE installation number assigned to the installation. The second subcolumn lists the installation number assigned by NPIC. Installation numbers, when used to reference an item, should be prefixed by the appropriate WAC number, since installation numbers are repeated from WAC to WAC. For example, there is an NPIC target number 0468-15-A and an NPIC target number 0467-15-A. In each instance, the NPIC installation number is 15-A, but the installations appear on different WAC charts.

COMOR TARGET NUMBERS

COMOR target numbers, when available, are listed directly above the photo reference data.

PHOTO REFERENCE DATA

The photo reference data indicates the frame(s) on which the installation appears.

CONDITIONS AFFECTING PHOTOGRAPHY

Following the photo reference data, symbols indicate conditions which affect the appearance of the installation on the photography. The symbols are: C (clear), SC (scattered cloud cover), H (haze), CS (cloud shadow), HC (heavy cloud cover), SD (semidarkness), S (snow), O (obliquity), GC (ground cover), CF (camouflage), and GR (ground resolution).

Interpretability of the photography is categorized as G (good), F (fair), or P (poor).

Target coverage is denoted by the symbols T (total) or PT (partial).

The mode of coverage is indicated by ST (stereo), NS (nonstereo), or PS (partial stereo).

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TITLE	NPIC	SEC. CLASS.	LOCATION
R-161/66	May 1966	C/NOFORN	

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